Performance Data Sheet

RKA5470YXA

General Information

Model	RKA5470YXA	**Refrigerant**	R-134a
Test Condition	ARI	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	1830	1860					
	Watts	346	357					
	Amps	3.36	3.47					
	Lb/h	27.4	27.5					
-10	Btu/h	2150	2140	2120				
	Watts	358	372	387				
	Amps	3.47	3.60	3.73				
	Lb/h	31.4	31.4	31.3				
-5	Btu/h	2530	2470	2420	2360			
	Watts	369	387	404	422			
	Amps	3.56	3.72	3.88	4.04			
	Lb/h	36.0	35.9	35.7	35.5			
0	Btu/h	2960	2860	2760	2660	2560		
	Watts	378	400	421	442	464		
	Amps	3.64	3.83	4.02	4.21	4.40		
	Lb/h	41.3	41.0	40.7	40.4	40.1		
5	Btu/h	3450	3310	3170	3020	2880		
	Watts	386	411	435	460	485		
	Amps	3.71	3.92	4.14	4.36	4.58		
	Lb/h	47.2	46.7	46.3	45.9	45.5		
10	Btu/h	4000	3810	3630	3440	3250	3060	2880
	Watts	392	420	449	477	506	534	563
	Amps	3.76	4.01	4.25	4.50	4.75	5.00	5.25
	Lb/h	53.7	53.2	52.6	52.1	51.5	50.9	50.3
15	Btu/h	4610	4370	4140	3910	3680	3450	3220
	Watts	396	428	460	492	524	557	589
	Amps	3.80	4.08	4.35	4.63	4.91	5.19	5.47
	Lb/h	60.9	60.2	59.5	58.9	58.2	57.4	56.7
20	Btu/h	5270	4990	4720	4440	4170	3890	3620
	Watts	398	434	470	506	541	577	613
	Amps	3.82	4.13	4.43	4.74	5.05	5.36	5.67
	Lb/h	68.7	67.9	67.1	66.3	65.5	64.6	63.8

25	Btu/h	5990	5670	5350	5030	4710	4390	4070
	Watts	399	438	478	517	557	596	636
	Amps	3.83	4.16	4.50	4.84	5.18	5.52	5.86
	Lb/h	77.2	76.2	75.3	74.4	73.4	72.4	71.5
30	Btu/h	6780	6410	6040	5680	5310	4950	4580
	Watts	397	440	483	527	570	613	657
	Amps	3.81	4.18	4.55	4.92	5.29	5.66	6.03
	Lb/h	86.3	85.2	84.2	83.1	82.0	80.9	79.8
35	Btu/h	7620	7210	6800	6390	5980	5570	5160
	Watts	393	440	487	534	581	628	676
	Amps	3.78	4.18	4.58	4.98	5.39	5.79	6.19
	Lb/h	96.1	94.9	93.7	92.5	91.2	90.0	88.8
40	Btu/h	8530	8070	7610	7150	6700	6240	5790
	Watts	387	438	489	540	591	642	693
	Amps	3.73	4.16	4.60	5.03	5.46	5.90	6.33
	Lb/h	106	105	104	102	101	99.8	98.4
45	Btu/h	9490	8990	8480	7980	7480	6980	6480
	Watts	379	434	489	543	598	653	708
	Amps	3.66	4.13	4.59	5.06	5.52	5.99	6.46
	Lb/h	118	116	115	113	112	110	109
50	Btu/h	10500	9970	9420	8870	8320	7780	7230
	Watts	368	427	486	545	603	662	721
	Amps	3.57	4.07	4.57	5.07	5.56	6.06	6.56
	Lb/h	129	128	126	124	123	121	120
55	Btu/h	11600	11000	10400	9820	9230	8640	8050
	Watts	356	418	481	544	607	669	732
	Amps	3.45	3.99	4.52	5.05	5.59	6.12	6.65
	Lb/h	142	140	138	136	135	133	131

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.769509E+03	2.112780E+02	2.171553E+00	4.325479E+01
C2	1.626107E+02	-4.152267E+00	-3.330042E-02	1.325099E+00
C3	-1.004868E+01	2.091170E+00	1.841873E-02	-2.545938E-02
C4	1.187007E+00	-3.952357E-02	-3.459051E-04	1.301872E-02
C5	-8.886971E-01	7.457414E-02	6.183060E-04	-2.701160E-03
C6	-1.932758E-04	-2.621628E-04	-3.247614E-06	3.464528E-05
C7	8.486543E-04	-1.000844E-04	-1.160946E-06	1.731290E-06
C8	-6.506961E-04	8.427466E-05	9.784048E-07	-2.439882E-06
C9	1.201164E-04	-1.919922E-05	-2.217079E-07	9.171844E-07
C10	1.604998E-07	2.938620E-06	3.532357E-08	-3.592856E-07

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature